

Form 1449 (Modified)

Atty Docket No.:

IMM1P060.RE

Application No.:

09/393,998

Information Disclosure Statement By Applicant

Applicant:

C. Culver

Filing Date:

9/8/99

Group:

2675

(Use Several Sheets if Necessary)

U.S. Patent Documents

Examiner Initial	Patent No.	Date	Patentee	Class	Sub-Class	Filing Date
<i>Chen</i>	3,919,691	11/11/75	Noll	340	172.5	5/26/71
<i>Chen</i>	4,131,033	12/26/78	Wright et al.	74	553	2/18/77
	4,398,889	08/16/83	Lam et al.	434	45	6/8/81
	4,477,043	10/16/84	Repperger	244	223	12/15/82
	4,489,304	12/18/84	Hayes	338	128	7/22/83
	4,560,983	12/24/85	Williams	340	825	9/17/82
	4,604,016	8/5/86	Joyce	414	7	8/3/83
	4,692,756	9/8/87	Clark	340	709	7/5/84
	4,706,294	11/10/87	Ouchida	381	109	6/10/86
	4,712,101	12/8/87	Culver	340	710	12/4/84
	4,724,715	2/16/88	Culver	74	471R	4/30/86
	4,782,327	11/1/88	Kley et al.	340	365	1/2/85
	4,794,384	12/27/88	Jackson	340	710	4/9/87
	4,795,296	1/3/89	Jau	414	5	11/17/86
	4,800,721	01/31/89	Cemenska et al.	60	393	2/13/87
	4,823,634	4/25/89	Culver	74	471XY	11/3/87
	4,861,269	8/29/89	Meenen, Jr.	434	45	3/30/88
	4,868,549	9/19/89	Affinito et al.	340	710	
	4,935,728	6/19/90	Kley	340	709	11/20/87
	4,949,119	8/14/90	Moncrief et al.	364	578	1/12/89
	4,962,448	10/9/90	DeMaio et al.	364	146	9/30/88
	4,983,901	1/8/91	Lehmer	318	685	4/21/89
	5,007,300	4/16/91	Siva	74	471	1/22/90
	5,044,956	09/03/91	Behensky et al.	434	45	1/12/89
	5,095,303	3/10/92	Clark et al.	340	710	
	5,103,404	4/7/92	McIntosh	318	568.22	12/20/89
	5,107,080	4/21/92	Rosen	200	6A	12/1/89
	5,142,931	9/1/92	Menahem	74	471XY	2/14/91
	5,146,566	9/8/92	Hollis, Jr. et al.	395	275	5/29/91
	5,184,319	2/2/93	Kramer	364	806	2/2/90

Examiner:

David Chen

Date Considered:

10/12/97

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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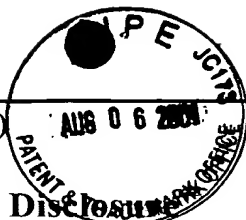
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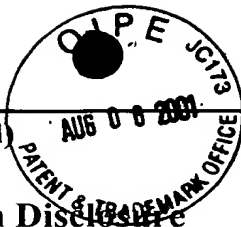
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U.S. Patent Documents

Examiner Initial	Patent No.	Date	Patentee	Class	Sub-Class	Filing Date
<i>W</i>	5,185,561	2/9/93	Good et al.	318	432	7/23/91
	5,186,629	2/16/93	Rohen	434	114	8/22/91
	5,193,963	3/16/93	McAfee et al.	414	5	10/31/90
	5,203,563	4/20/93	Loper, III	273	148B	3/21/91
	5,220,260	6/15/93	Schuler	318	561	10/24/91
	5,223,776	6/29/93	Radke et al.	318	568.1	12/31/90
	5,235,868	8/17/93	Culver	74	471XY	10/2/91
	5,237,327	8/17/93	Saitoh et al.	341	176	11/14/91
	5,280,276	1/18/94	Kwok	345	167	7/10/92
	5,284,330	2/8/94	Carlson	267	140.14	6/18/92
	5,296,846	3/22/94	Ledley	345	161	10/5/92
	5,296,871	3/22/94	Paley	345	163	7/27/92
	5,313,230	5/17/94	Venolia et al.	345	163	7/24/92
	5,317,336	5/31/94	Hall	345	164	6/23/92
	5,381,080	1/10/95	Schnell et al.	318	566	2/18/93
	5,396,266	3/7/95	Brimhall	345	161	6/8/93
	5,405,152	4/11/95	Katanics et al.	273	438	6/8/93
	5,414,337	5/9/95	Schuler	318	561	6/11/93
	5,457,479	10/10/95	Cheng	345	163	6/13/94
	5,473,344	12/5/95	Bacon et al.	345	163	1/6/94
	5,477,237	12/19/95	Parks	345	156	7/14/94
	5,491,477	2/13/96	Clark et al.	341	20	9/13/93
	5,492,312	2/20/96	Carlson	267	140	4/17/95
	5,512,919	4/30/96	Araki	345	156	3/30/93
	5,513,100	4/30/96	Parker et al.	364	167.01	6/10/93
	5,543,821	8/6/96	Marchis et al.	345	167	7/20/94
	5,583,407	12/10/96	Yamaguchi	318	551	12/27/94
	5,587,937	12/24/96	Massie et al.	364	578	4/25/95
	5,623,582	4/22/97	Rosenberg	395	99	7/14/94
	5,627,531	5/6/97	Posso et al.	341	22	9/30/94

Examiner: *David Clon* Date Considered: *10/19/01*

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**Information Disclosure
Statement By Applicant**

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Atty Docket No.:
IMM1P060.REApplication No.:
09/393,098Applicant:
C. CulverFiling Date:
9/8/99Group:
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Technology Center 2800**U.S. Patent Documents**

Examiner Initial	Patent No.	Date	Patentee	Class	Sub- Class	Filing Date
Chen	5,629,594	5/13/97	Jacobus et al.	318	568.11	10/16/95
	5,642,469	6/24/97	Hannaford	395	99	11/3/94
	5,643,087	7/1/97	Marcus et al.	463	38	7/29/94
	5,666,473	9/9/97	Wallace	345	420	10/8/92
	5,691,747	11/25/97	Amano	345	167	12/19/94
	5,709,219	01/20/98	Chen et al.	128	782	08/01/96
	5,714,978	02/02/98	Yamanaka et al.	345	157	12/05/95
	5,721,566	2/24/98	Rosenberg et al.	345	161	6/9/95
	5,724,106	3/3/98	Autry et al.	348	734	3/27/96
	5,734,373	3/31/98	Rosenberg et al.	345	161	12/1/95
	5,742,278	4/21/98	Chen	345	156	11/1/95
	5,769,640	6/23/98	Jacobus et al.	434	262	8/10/95
	5,790,108	8/4/98	Salcudean et al.	345	184	10/23/92
	5,816,823	10/6/98	Naimark et al.	434	307	10/9/96
	5,821,920	10/13/98	Rosenberg et al.	345	156	3/28/97
	5,841,423	11/24/98	Carrol, Jr. et al.	345	168	12/26/95
	5,841,428	11/24/98	Jaeger et al.	345	184	9/20/96
	5,889,670	3/30/99	Schuler et al.	364	186	1/11/96
	6,004,134	12/21/99	Marcus et al.	434	45	5/19/94
	6,104,382	8/15/00	Martin et al.	345	161	4/10/98
	6,256,011	7/3/01	Culver	345	157	12/1/98

Examiner:

Chen

Date Considered:

10/19/01

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Foreign Patent or Published Foreign Patent Application

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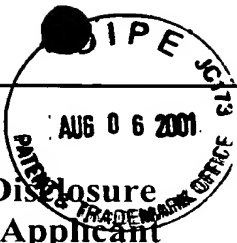
er: Dean Brown

Date Considered:

10/19/07

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Form 1449 (Modified) Information Disclosure Statement By Applicant <i>(Use Several Sheets if Necessary)</i>	Atty Docket No.: IMM1P060.RE	Application No.: 09/393,998
	Applicant: C. Culver	
	Filing Date: 9/8/99	Group: 2675



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Other Documents

Examiner Initial	Author, Title, Date, Place (e.g. Journal) of Publication
<i>Clear</i>	Schmult, Brian et al., "Application Areas for a Force-Feedback Joystick," ASME 1993, DSC-Vol. 49, pp. 47-54.
<i>Clear</i>	Howe, Robert D., "Task Performance with a Dextrous Teleoperated Hand System," Proceedings of SPIE, November 1992, Vol. 1833, pp. 1-9.
<i>Clear</i>	Russo, Massimo Andrea, "The Design and Implementation of a Three Degree-of-Freedom Force Output Joystick," Department of Mechanical Engineering, May 11, 1990, pp. 9-40 & 96 & 97.
<i>Clear</i>	Adachi, Yoshitaka et al., "Sensory Evaluation of Virtual Haptic Push-Buttons," Technical Research Center Suzuki Motor Corporation.
<i>Clear</i>	Su, S. Augustine et al., "The Virtual Panel Architecture: A 3D Gesture Framework," IEEE 1993.
<i>Clear</i>	Rosenberg, Louis B., Perceptual Design of A Virtual Rigid Surface Contact, Center for Design Research, Stanford University, Armstrong Laboratory, AL/CF-TR-1995-0029, April 1993.
<i>Clear</i>	Ellis, R.E. et al., "Design and Evaluation of a High-Performance Prototype Planar Haptic Interface," ASME December 3, 1993, DSC-Vol. 49, pp. 55-64.
<i>Clear</i>	Adlestein, Bernard D. et al., "Design and Implementation of a Force Reflecting Manipulandum for Manual Control Research," 1992, pp. 1-24.
<i>Clear</i>	Adelstein Bernard D. et al., "A High Performance Two Degree-of-Freedom Kinesthetic Interface," Massachusetts Institute of Technology 1992, pp. 108-112.
<i>Clear</i>	Minsky, Margaret et al., "Feeling and Seeing: Issues in Force Display," ACM 1990, pp. 235-242.
<i>Clear</i>	Batter, James J. et al., "Grobe-1: A Computer Display to the Sense of Feel," pp. TA-4-188-TA-4-192.
<i>Clear</i>	Gotow, J.K., et al., "Perception of Mechanical Properties at the Man-Machine Interface," IEEE 1987, pp. 688-689.
<i>Clear</i>	Atkinson, William D. et al, "Computing with Feeling," Comput. & Graphics, Vol. 2, No. 2-E, pp. 97-103.
<i>Clear</i>	Wiker, Steven F. et al., "Development of Tactile Mice for Blind Access to Computers: Importance of Stimulation Locus, Object Size, and Vibrotactile Display Resolution," Proceedings of the Human Factors Society 35th Annual Meeting 1991, pp. 708-712.
<i>Clear</i>	Iwata, Hiroo, "Artificial Reality with Force-feedback: Development of Desktop Virtual Space with Compact Master Manipulator," Computer Graphics, Vol. 24, No. 4, 1990, pp.165-170.
<i>Clear</i>	Hirota, Koichi et al., "Development of Surface Display," IEEE 0-7803-1363-1, 1993, pp. 256-262.
<i>Clear</i>	Akamatsu, M. et al., "Multimodal Mouse: A Mouse-Type Device with Tactile and Force Display," Presence, Vol. 3, No. 1, 1994, pp. 73-80.
<i>Clear</i>	Millman, P. et al., "Design of a Four Degree-of-Freedom Force-Reflecting Manipulandum with a Specified Force/Torque Workspace," IEEE CH2969-4, 1991, pp. 1488-1492.
<i>Clear</i>	Brooks, F. et al., "Project GROPE-- Haptic Displays for Scientific Visualization," Computer Graphics, Vol. 24, No. 4, 1990, pp. 177-185.
<i>Clear</i>	Kelley, A. J. et al., "MagicMouse: Tactile and Kinesthetic Feedback in the Human-Computer Interface using an Electromagnetically Actuated Input/Output Device," Dept. of Elec. Eng., Univ. of Brit. Columbia, 1993, pp. 1-27.

Examiner: <i>David H. [Signature]</i>	Date Considered: <i>10/19/01</i>
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